

Abstract of the Disclosure

Living cells can be stably modified to emit different colors from the cytoplasm and nucleus, thus permitting analysis of the status of said cells and the effect of agents on said cells either by visual or instrumentally-aided observation. These observations may be made, if desired, in real time. In addition, rates of proliferation and drug sensitivities can be determined *in vitro* in real time by the use of cells modified to express a single fluorescent protein and observing fluorescence intensity as a function of time.